In the United States Patent and Trademark Office

Serial Number:	
Appn. Filed:	
Applicant: Ronald F. Balingit	
Appn. Title: Smoke Collector for Diesel Era	aines
Examiner/GAU:	
	Mailed 2004 Feb. 20
	Agoura Hills, CA

Information Disclosure Document

Commissioner of Patents and Trademarks Washington, District of Columbia 20231

Sir:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon. Following are comments on these references pursuant to Rule 98.

Hartwick shows a self-cleaning smoke filter utilizing water sprays inside a channel provided with baffles.

Dovle, et al., shows an integrated injection and bag filter house system for SO.sub.x-NO.sub.xparticulate control with reagent/catalyst regeneration.

Richerson shows a cyclonic separator with internal baffles to force the gas stream in two directions, and can be enhanced by electrostatic separation.

Altman, et al., shows an electrostatically enhanced separator which combines centrifugal separation and electrostatic separation.

Paul shows a particulate separator which combines centrifugal separation with moisture feeding or electrostatic separation.

Truhan shows a cyclone type air/particulate concentrator and collector with improvements in the gas inlet scroll and the gas discharge scroll.

Pirsh shows a filter house having catalytic filter bags for removing NO.sub.x and particulate matter.

None of the references shows a process for collecting particulates from a gas stream comprising the steps of increasing the relative humidity of the gas stream and compelling the gas stream to interact with a cold solid surface.

None of the references shows a particulate collector that relies on the condensation of water vapor on a solid surface as the primary principle of particulate collection.

Very respectfully, Ronald F. Balingit

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ENC: PTO-1449 & References

FORM PTO-1449 U.S. DEPARTMENT REV. 7-801 PATENT AND TRAC							P	I.S. A TE	DEPARTMENT AND TRA	TOF COMMERCE	ATTY. DOCKET NO.		SERIAL NO.			
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	AA	4	0	6		4	7	8	1977	Hartw	ick	96	356			
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	AC	4	9	2	7	4	3	7	1990	Richers	son	55	349			
	AD	5	6	B	3	4	9	4	1997	Altman	, et.al.,	96	55			
	AE	4	2	3	9	5	1	3	1980	Paul, e	t. al. g	96	48			
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